beyma

PROFESSIONAL LOUDSPEAKERS

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6MI100

MID FREQUENCY TRANSDUCER

MI100 Series

KEY FEATURES

- Program power: 500 W
- Sensitivity: 94 dB (1W / 1m)
- 2” aluminum voice coil
- Die cast aluminum basket
- Shorting cap for extended response and low harmonic distortion
- Designed for high quality mid-frequency reproduction





TECHNICAL SPECIFICATIONS

Nominal diameter	165 mm	6,5 in
Rated impedance		8 Ω
Minimum impedance		6,8 Ω
Power capacity*		250 W_{AES}
Program power		500 W
Sensitivity	94 dB	1W / 1m @ Z_N
Frequency range		100 - 8.000 Hz
Voice coil diameter	50,8 mm	2 in
Bl factor		10,8 N/A
Moving mass		0,014 kg
Voice coil length		9 mm
Air gap height		7 mm

THIELE-SMALL PARAMETERS**

Resonant frequency, f_s	128 Hz
D.C. Voice coil resistance, R_e	6 Ω
Mechanical Quality Factor, Q_{ms}	8,6
Electrical Quality Factor, Q_{es}	0,55
Total Quality Factor, Q_{ts}	0,51
Equivalent Air Volume to C_{ms}, V_{as}	3,1 l
Mechanical Compliance, C_{ms}	119 µm / N
Mechanical Resistance, R_{ms}	1,2 kg / s
Efficiency, η_0	1,2 %
Effective Surface Area, S_d	0,014 m^2
Maximum Displacement, X_{max} * **	3 mm
Displacement Volume, V_d	42 cm^3
Voice Coil Inductance, L_e @ 1 kHz	0,2 mH

Notes:

* The power capaticty is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer’s ability to handle normal music program material.

** T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

*** The X_{max} is calculated as $(L_{vc} - H_{ag})/2 + (H_{ag}/3,5)$, where L_{vc} is the voice coil length and H_{ag} is the air gap height.

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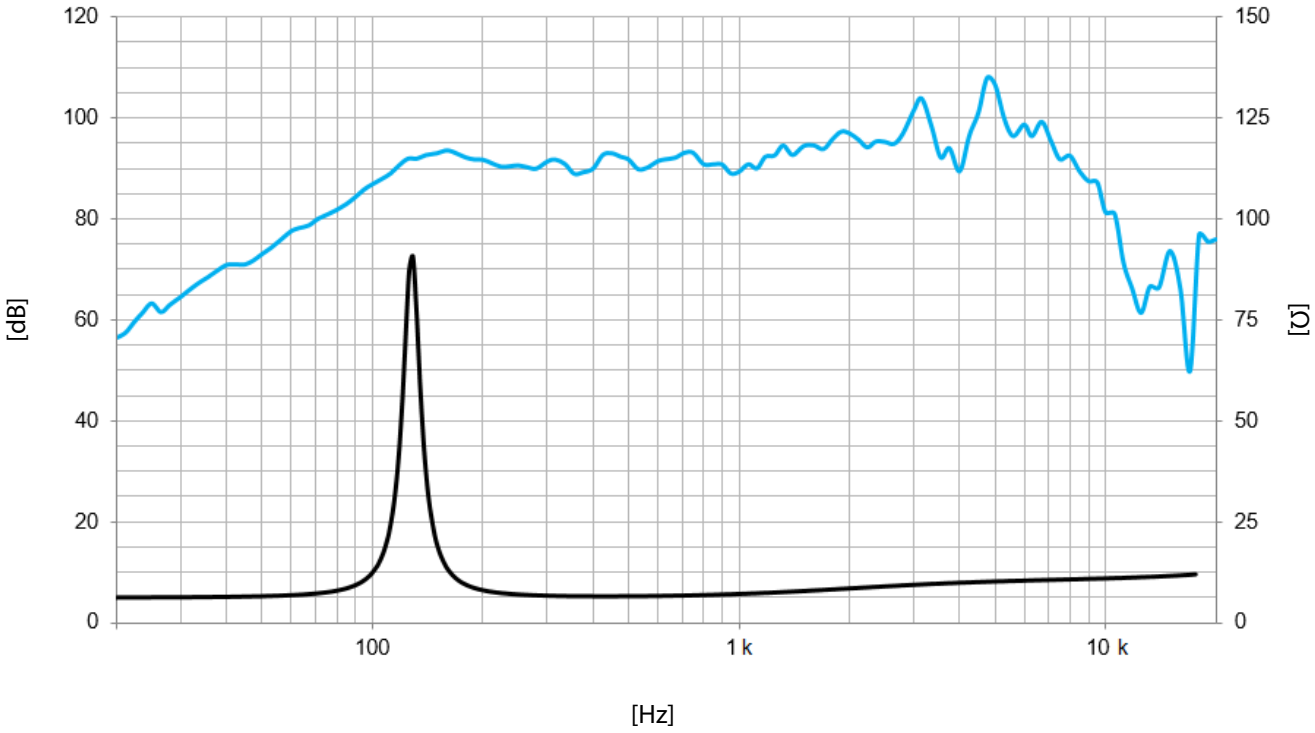
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Note: On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	174 mm	6,9 in
Bolt circle diameter	158 mm	6,2 in
Baffle cutout diameter:		
- Front mount	146 mm	5,8 in
Depth	85 mm	3,3 in
Volume displaced by driver	0,75 l	0,03 ft³
Net weight	3,0 kg	6,6 lb
Shipping weight	3,1 kg	6,8 lb

DIMENSION DRAWING

